Navicat™

Report Viewer 3

User Guide

PremiumSoft™
PremiumSoft CyberTech Ltd.

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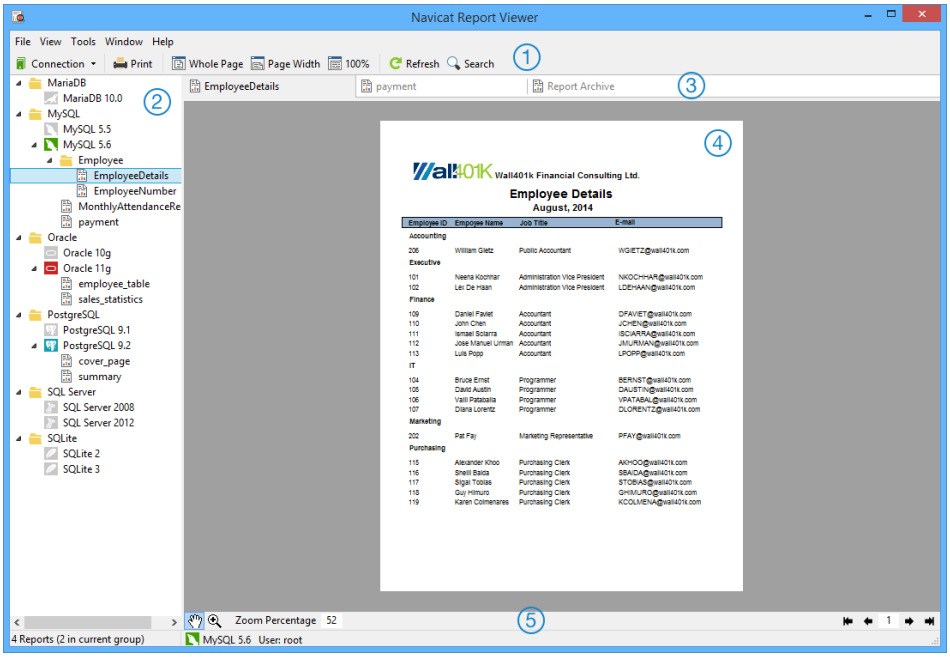
Getting Started

Navicat Report Viewer is an easy-to-use tool. With its friendly Graphical User Interface (GUI), Navicat Report Viewer allows you to navigate reports designed by Navicat Report Builder. You can access reports located at local or remote MySQL (version 3.21 or above)/Oracle (version 8.1 or above)/PostgreSQL (version 7.3 or above)/SQLite (version 2 and 3)/SQL Server (version 2000 or above and SQL Azure)/MariaDB (version 5.1 or above), no matter the server is running on a Linux, Unix, Mac or Windows platform.

Navicat Report Viewer allows you to share reports with someone who does not have Navicat running on his computer but has Navicat Report Viewer installed. It highly increases the flexibility and convenience for viewing reports.

Files in .raf & .rtm formats can be viewed. It also gives you the ability to print reports in pdf, html & archive formats.

Navicat Report Viewer is available on Windows platform only. For details, visit our web-site: http://www.navicat.com



① Main Toolbar

Main Toolbar allows you to create connections and access basic features, such as print, search, etc.

② Connection Tree

Connection Tree is the basic way to navigate with connections and reports. It employs tree structure which allows you to take action upon the connection and reports through their pop-up menus quickly and easily.

③ Tab Bar

Tab Bar allows you to switch among the opened reports. If you have multiple tabs open, you can use CTRL+TAB to easily switch to other tabs.

④ Report Pane

Report Pane displays the .raf and .rtm reports.

⑤ Bottom Toolbar

Bottom Toolbar provides other controls that you can use to view the report.

System Requirements

System Requirements for Windows

- Microsoft Windows XP SP3, Vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Server 2003, Server 2008, Server 2012
- 32-bit or 64-bit systems

Registration

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If you have ordered Navicat software and would like to review your order information, or if you have questions about ordering, payments, or shipping procedures, please contact our Navicat Sales Department.

After purchase you will obtain a **Registration Key** to activate your licensed Navicat by e-mail within 24 hours after we received your order. Please make sure to enter a valid e-mail address in your order. If you have not received the keys within 24 hours, it is probably that the e-mail we sent was blocked by your email spam filter. To resend your download information and keys, please submit your registered email address to our Customer Center. If you get no reply from the resend form, please contact our Navicat Sales Department.

Besides, if you feel uncomfortable with providing your personal information over the Internet, we accept Purchase Order and Bank/Wire Transfer. Please visit our Offline Order.

Installation

We strongly suggest that you shut down any opened applications. This will help ensure a smooth installation.

Note: For user who has been trying our unregistered version, just simply key in the **Registration Key** (16 digit) on the pop-up Registration screen.

Installation for Download Version

1. Open or Save the **.exe** file.
2. Click **Next** at the Welcome Screen.
3. Read the License Agreement. Accept it and click **Next**.

4. Accept the location of the program icons by clicking **Next**. If you wish to change the destination of the folder for Navicat Report Viewer program click **Browse**.
5. Follow the remaining steps.
6. After installed, key in the **Registration Key** (16 digit) on the pop-up Registration screen and click **Activate** to online activate the key.

Installation for CD Version

1. Load the Navicat CD Installation disk into the CD-ROM drive.
2. Open the .exe file.
3. Click **Next** at the Welcome Screen.
4. Read the License Agreement. Accept it and click **Next**.
5. Accept the location of the program icons by clicking **Next**. If you wish to change the destination of the folder for Navicat Report Viewer program click **Browse**.
6. Follow the remaining steps.
7. After installed, key in the **Registration Key** (16 digit) on the pop-up Registration screen and click **Activate** to online activate the key.

Migrate Navicat Report Viewer to new computer

All your connection settings are stored in **registry**. To view the registry record, in Windows, Choose **Start** -> **Run**, then type "regedit". (The path should be "HKEY_CURRENT_USER/Software/PremiumSoft/ReportViewer".)

1. Backup your connection settings.
2. In Navicat Report Viewer, choose **Help** -> **Registration** and click **Deactivate** to online deactivate the key.
3. Uninstall Navicat Report Viewer from the existing computer.
4. Re-install Navicat Report Viewer in the new computer.
5. Restore your connection settings into **registry**.

When a new connection being established, Navicat Report Viewer will create a subfolder under the Report Location. All your report files (.rtm) are stored within this subfolder. To look for the path, right-click the connection and choose **Connection Properties** -> **Advanced** -> **Report Location**.

Maintenance/Upgrade

How to purchase the maintenance plan?

Navicat Software Maintenance Plan allows Navicat users to receive priority email support, receiving software upgrades and receiving bug fix releases at no additional cost during the protected period.

Subscription to the Maintenance Plan is done at the time of your software license purchase or within 90 days as of your purchase date - it cannot be added to a previously purchased product at a later date. For details, please click here.

How to upgrade your Navicat Report Viewer?

If you want to upgrade installed copy of Navicat Report Viewer to the latest release, please choose **Help** -> **Check For Updates** to start the Updater. It will automatically check your installed version. If there is a new version, simply follow the steps in the Updater to upgrade your Navicat Report Viewer. It will replace your previous Navicat Report Viewer and your current settings will remain unchanged.

Or, you can submit your registered email address on the Customer Center to download the latest version installer.

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Connection

To start viewing reports in Navicat Report Viewer, you should first establish a connection or several connections using the connection window. If you are new to the server or 'Net in general' and are not quite sure how things work, you may want to look at:

- MySQL User Manual
- Oracle Database Documentation
- PostgreSQL User Manual
- SQLite User Manual
- SQL Server MSDN Library
- MariaDB Documentation

To create a new connection, click **Connection** or choose **File** -> **New Connection**. Then, enter the necessary information in Connection Properties window.

After the connections being established, you need to place your report files (.rtm) to the Report Location before viewing and printing your reports.

Note: Navicat Report Viewer authorizes you to make connection to remote servers running on different platforms, i.e. Windows, Mac, Linux and UNIX.

General Settings

To successfully establish a new connection to local/remote server - no matter via SSL, SSH or HTTP, set the connection properties in the General tab. If your Internet Service Provider (ISP) does not provide direct access to its server, Secure Tunneling Protocol (SSH) / HTTP is another solution. Enter a friendly name to best describe your connection in **Connection Name** text box.

MySQL and MariaDB Connections

You can connect to your MySQL server remotely however for security reasons native remote direct connections to the MySQL server are disabled. Therefore, you cannot use Navicat Report Viewer or other similar applications running on your computer to connect to the remote server directly unless the User Privileges has been configured.

By default, MySQL gives "root" as username and leave the password field blank.

Host Name/IP Address
A host name where the database is situated or the IP address of the server.

Port
A TCP/IP port for connecting to the database server.

User Name

User name for connecting to the database server.

Password

Password for connecting to the server.

Oracle Connection

Navicat Report Viewer supports 2 types of Oracle server connection. In **Basic** mode, Navicat Report Viewer connects to Oracle through the Oracle Call Interface (OCI). OCI is an application programming interface that allows an application developer to use a third-generation language's native procedure or function calls to access the Oracle database server and control all phases of SQL statement execution. OCI is a library of standard database access and retrieval functions in the form of a dynamic-link library.

In **TNS** mode, Navicat Report Viewer connects to Oracle server using an alias entry from a tnsnames.ora file through the Oracle Call Interface (OCI). OCI is an application programming interface that allows an application developer to use a third-generation language's native procedure or function calls to access the Oracle database server and control all phases of SQL statement execution. OCI is a library of standard database access and retrieval functions in the form of a dynamic-link library.

By default, Oracle created a number of user accounts upon installation. Administrative accounts: SYS, SYSTEM, SYSMAN, and DBSNMP. Sample schema accounts: SCOTT, HR, OE, OC, PM, IX and SH.

Connection Type

Basic	**Host Name/IP Address** A host name where the database is situated or the IP address of the server. **Port** A TCP/IP port for connecting to the database server. **Service Name/SID** Set the Service Name/SID which the user connects when making connection. Select the corresponding radio button.
TNS	User needs to provide the **Net Service Name**.

User Name

User name for connecting to the database server.

Password

Password for connecting to the server.

PostgreSQL Connection

For security reasons native remote direct connections to the PostgreSQL server are disabled. Therefore, you may not be able to use Navicat report Viewer or other similar applications running on your computer to connect to the remote server. By default, PostgreSQL only allows connections from the local machine using TCP/IP connections. Other machines will not be able to connect unless you modify *listen_addresses* in the *postgresql.conf* file, enable host-based authentication by modifying the *$PGDATA/pg_hba.conf* file, and restart the server. For more information: Client Authentication

By default, PostgreSQL gives "postgres" as username and leave the password field blank.

Host Name/IP Address

A host name where the database is situated or the IP address of the server.

Port

A TCP/IP port for connecting to the database server.

Initial Database

The initial database to which user connects when making connection.

User Name

User name for connecting to the database server.

Password

Password for connecting to the server.

SQLite Connection

Database File

Specify the initial database file. If the HTTP Tunnel is enabled, you need to enter an absolute file path of the database file in your web server.

SQL Server Connection

Host Name/IP Address

A host name where the database is situated or the IP address of the server.

Authentication

SQL Server uses two ways to validate connections to SQL Server databases: **SQL Server Authentication** and **Windows Authentication**.

SQL Server Authentication	SQL Server Authentication uses login records to validate the connection. Users must provide their server login **User Name** and **Password**.
Windows Authentication	When a user connects through a Windows user account, SQL Server validates the account name and password using the Windows principal token in the operating system. This means that the user identity is confirmed by Windows. SQL Server does not ask for the password, and does not perform the identity validation.

Initial Database

The initial database to which user connects when making connection.

Advanced Settings

Report Location

When a new connection is being established, Navicat Report Viewer will create a subfolder under the Report Location. You should place all your report files (.rtm) within this subfolder.

Hint: You are allowed to change any locations as you like.

Auto Connect

With this option on, Navicat Report Viewer automatically open connection at application startup.

MySQL and MariaDB Connections

Encoding

Choose a codepage to communicate with MySQL Server while MySQL character set not being employed.

Keepalive Interval (sec)

This option allows you to keep the connection with the server alive by pinging it. You can set the period between pings in the edit field.

Use MySQL character set

This option should be enabled if employing MySQL 4.1 or above.

Use Compression

This option allows you to use compression protocol. It is used if both client and server support zlib compression, and the client requests compression.

Use Named Pipe, Socket

With this option on, Navicat Report Viewer uses socket file for localhost connection.

Oracle Connection

Role

Indicate that the database user is connecting with either the **Default**, **SYSOPER** or **SYSDBA** system privilege.

Keepalive Interval (sec)

This option allows you to keep the connection with the server alive by pinging it. You can set the period between pings in the edit field.

OS Authentication

With this option on, Oracle Database uses Windows user login credentials to authenticate database users.

PostgreSQL Connection

Keepalive Interval (sec)

This option allows you to keep the connection with the server alive by pinging it. You can set the period between pings in the edit field.

SQLite Connection

Encrypted

Enable this option and provide **Password** when connecting to an encrypted SQLite database.

Attached Database

To attach or detach databases in the connection.

SQL Server Connection

Keepalive Interval (sec)

This option allows you to keep the connection with the server alive by pinging it. You can set the period between pings in the edit field.

Use Encryption

This option allows you to use encryption.

Advanced Database Properties for SQLite

You can click **Attach Database** button to attach a database file.

Option	Description
Database File	Set the file path for a database.
Database Name	Enter the database name which displays in Navicat Report Viewer.
Encrypted	Enable this option and provide **Password** when connecting to an encrypted SQLite database.

To detach a database, select it from the list and click **Detach Database** button.

SSL Settings

Secure Sockets Layer(SSL) is a protocol for transmitting private documents via the Internet. To get a secure connection, the first thing you need to do is to install OpenSSL Library and download Database Source.

Note: Available only for MySQL, PostgreSQL and MariaDB.
Support from PostgreSQL 8.4 or later.

MySQL and MariaDB Connections

To provide authentication details, enable **Use Authentication** and fill in the required information:

Client Key

The SSL key file in PEM format to use for establishing a secure connection.

Client Certificate

The SSL certificate file in PEM format to use for establishing a secure connection.

CA Certificate

The path to a file in PEM format that contains a list of trusted SSL certificate authorities.

Verify CA Certificate Name

Check the server's Common Name value in the certificate that the server sends to the client.

Specified Cipher

A list of permissible ciphers to use for SSL encryption.

PostgreSQL Connection

Choose the **SSL Mode**:

require	Only try an SSL connection.
verify-ca	Only try an SSL connection, and verify that the server certificate is issued by a trusted CA.
verify-full	Only try an SSL connection, verify that the server certificate is issued by a trusted CA and that the server hostname matches that in the certificate.

To provide authentication details, enable **Use Authentication** and fill in the required information:

Client Key

The path of the client private key.

Client Certificate

The path of the client certificate.

CA Certificate

The path of the trusted certificate authorities.

Certificate Revocation List

The file path of the SSL certificate revocation list (CRL).

SSH Settings

Secure SHell (SSH) is a program to log in into another computer over a network, execute commands on a remote server, and move files from one machine to another. It provides strong authentication and secure encrypted communications between two hosts, known as **SSH Port Forwarding (Tunneling)**, over an insecure network. Typically, it is employed as an encrypted version of Telnet.

In a Telnet session, all communications, including username and password, are transmitted in plain-text, allowing anyone to listen-in on your session and steal passwords and other information. Such sessions are also susceptible to session hijacking, where a malicious user takes over your session once you have authenticated. SSH serves to prevent such vulnerabilities and allows you to access a remote server's shell without compromising security.

Note: Available only for MySQL, Oracle, PostgreSQL, SQL Server and MariaDB.

Please make sure that the parameter - "AllowTcpForwarding" in the Linux server must be set to value "yes", otherwise, the SSH port forwarding will be disabled. To look for the path: /etc/ssh/sshd_config. By default, the SSH port forwarding should be enabled. Please double check the value settings.

** Even the server support SSH tunnel, however, if the port forwarding being disabled, Navicat Report Viewer cannot connect via SSH Port 22.

Host Name/IP Address
A host where SSH server is activated.

Port
A port where SSH server is activated, by default it is 22.

User Name
A user on SSH server machine. (It is not a user of database server.)

Authentication Method

Password	Provide the Linux user **Password**.
Public Key	**Private Key** It is used together with your public key. The private key should be readable only by you. **Passphrase** A passphrase is exactly like a password, except that it applies to the keys you are generating and not an account.

Note: Navicat Report Viewer host name at the General tab should be set relatively to the SSH server which provided by your database hosting company.

HTTP Settings

HTTP Tunneling is a method for connecting to a server that uses the same protocol (http://) and the same port (port 80) as a webserver does. It is used while your ISPs do not allow direct connections, but allows establishing HTTP connections.

Note: Available only for MySQL, PostgreSQL, SQLite and MariaDB.

Uploading the Tunneling Script

To use this connection method, first thing you need to do is to upload the tunneling script to the webserver where your server is located.

Note: **ntunnel_mysql.php** (for both MySQL and MariaDB), **ntunnel_pgsql.php**, **ntunnel_sqlite.php** is available in the Navicat Report Viewer installation folder.

Setting up HTTP Tunnel

The following instruction guides you through the process of configuring a HTTP connection.

1. Select the HTTP tab and enable **Use HTTP Tunnel**.
2. Enter URL of the tunneling script, e.g. *http://www.navicat.com/ntunnel_mysql.php* .
3. If your server installed a Web Application Firewall, you can check the **Encode outgoing query with base64** option.
4. If the tunneling script is hosted in a password protected server or you have to access internet over a proxy server, you can provide the required authentication details in **Authentication** or **Proxy** tab.
5. Navicat Report Viewer host name at the General settings page should be set relatively to the HTTP server which provided by your database hosting company.

Note: HTTP Tunnel and SSH Tunnel cannot function simultaneously. The SSH Tunnel is disabled when you select the HTTP Tunnel and vice versa.

Report Handling

Navicat Report Viewer provides several tools to handle your reports. See below for more information.

To open a report

1. Open a connection in the connection tree.
2. Double-click the report to open in the connection tree.

Hint: - **Zoom In**; ALT+ - **Zoom Out**.

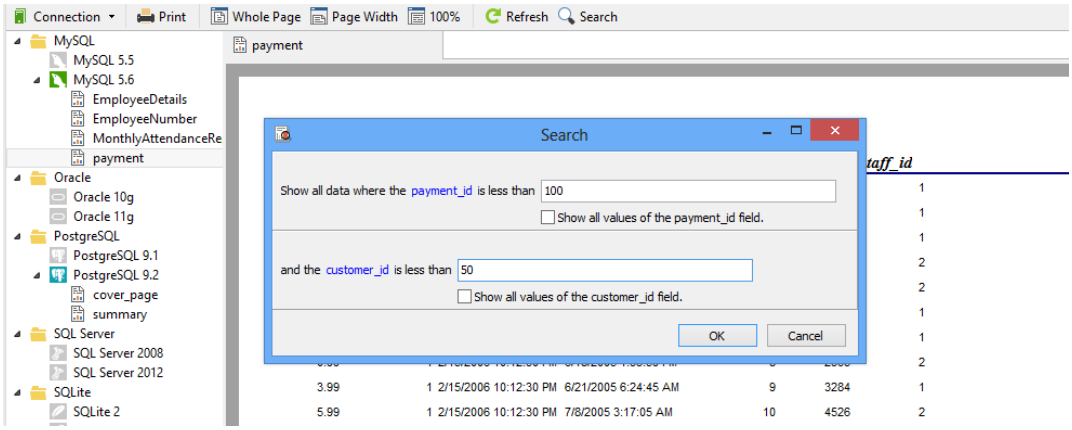
To achieve the most up-to-date data from server

- Right-click the report in the connection tree and choose **Refresh**.
  or
- Click the **Refresh** from the toolbar.

Open Report with Search Parameter

If you have been provided with a search report, you are allowed to enter the parameter(s) to limit your search results that meet your criteria. In order words, you can determine the results of your report output.

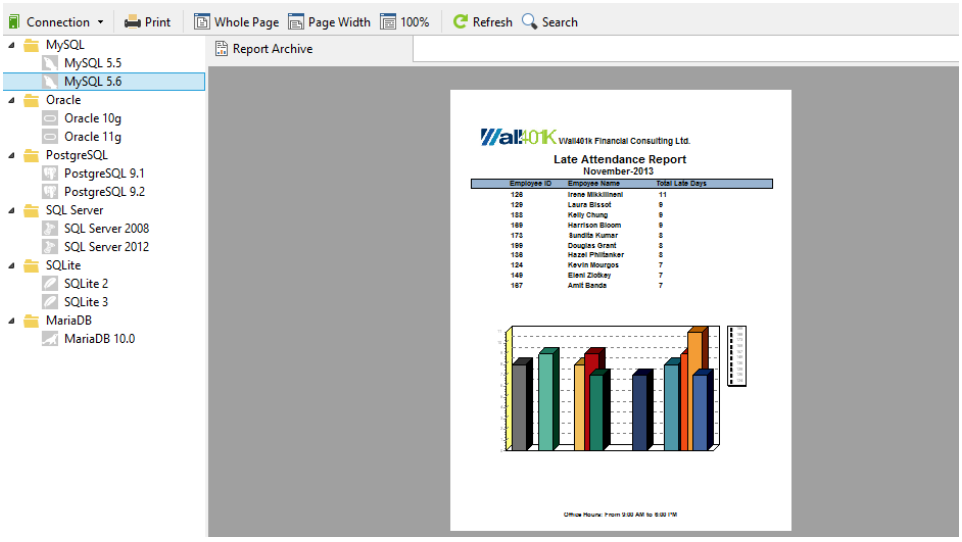
Just simple click **Search** from the toolbar and enter your search value(s).



Open Report without Server Connection

There is not necessary to establish server connection to view your reports if you are provided with archive files (.raf). However, please bear in mind that all data stores in the archive files (.raf) will not contain the most up-to-date data.

Just simple select **File** -> **Open Report** from the main menu and browse the archive files (.raf).



Print Report

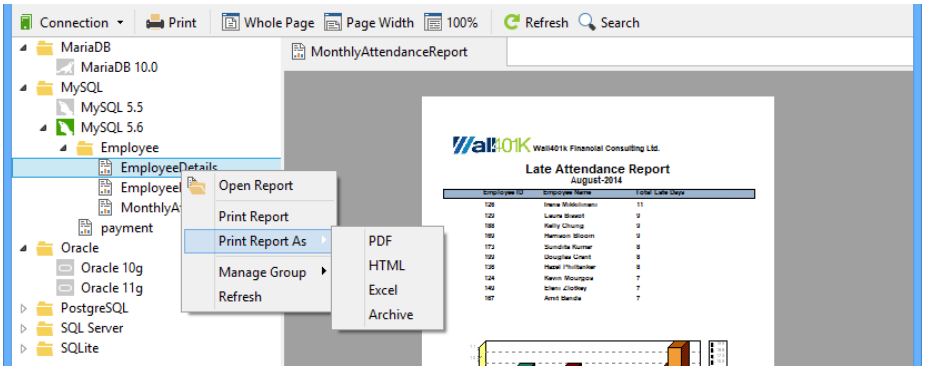
You can print a report to a printer, simply click **Print** from the toolbar.

Print Reports to Files

Navicat Report Viewer not only allows you to print your reports to printer but also many kind of file formats, i.e. PDF, HTML, Excel and more.

To print file from pop-up menu:

- Right-click the report in the connection tree and choose **Print Report As** -> **PDF**/**HTML**/**Excel**/**Archive**.

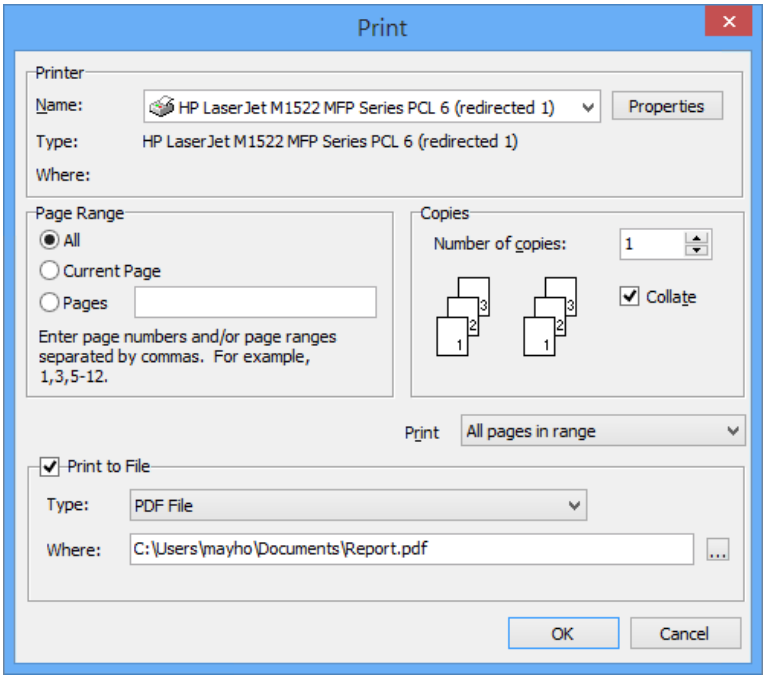


To print your reports to other file formats: (The **Print to File** under the **Print** Dialog will be available if the user, who created the reports, enabled AllowPrintToFile option in Navicat Report Builder.)

File Types
Text File
Report Emulation Text File
PDF File
Lotus File

Quattro File
Excel File
Graphic File
HTML File
XHTML File
RTF File
Printer File

1. Right-click the report in the connection tree and choose **Print Report** or just simply click the **Print** from the toolbar.
2. Choose the file type and location in the **Print** Dialog.



Useful Tools

Navicat Report Viewer provides variety of tools that improve user experience when using Navicat Report Viewer.

Virtual Grouping

Virtual Group aims to provide a platform for logical grouping objects by categories, so that all objects are effectively preserved. It can be applied on connections and reports.

Right-click in the connection tree or on the report and select **Manage Group** -> **New Group** from the pop-up menu to create a new group.

To move a connection/report to a group, right-click it and select **Manage Group** -> **Move To** from the pop-up menu or drag and drop it into the group.

To move a connection/report back to the top-level, right-click it and select **Manage Group** -> **Exclude From Group** from the pop-up menu or drag and drop the object(s) to target level in the connection tree.

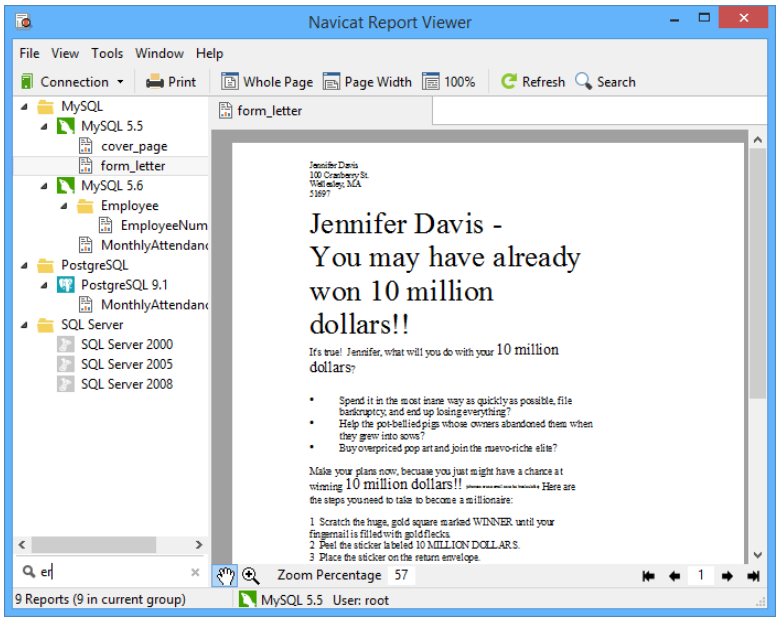
Select **View** -> **Flatten Connection Tree** from the main menu to hide the groups.

Tree Filter

Tree Filter allows you to filter connection in the connection tree that names contain the filter string.

Click on the connection tree to focus and specify a filter string directly. If connection has opened, the filter will also apply to its reports.

To remove the filter, simply delete the filter string.



Options

Navicat Report Viewer provides additional settings. Select **Tools** -> **Options** from the main menu.

Miscellaneous Options

Files Location

The file records how connections and reports are categorized stores in the **profiles** directory and all the log files store in the **logs** directory.

Activation & Updater

Check for updates on startup

Check this option to allow Navicat Report Viewer checks for new version when it starts.

Proxy

Use Proxy

Check this option to use proxy for the activation process and enter **Host**, **Port**, **User Name** and **Password**.

OCI (Available only for Oracle)

OCI library (oci.dll)

Choose the **Oracle Client** / **Oracle Instant Client** folder that includes the OCI library (oci.dll) for Basic/TNS connection. It has already included in Navicat Report Viewer installation folder. You can locate it directly.

Hint: Restart Navicat Report Viewer to take effect.

Oracle Instant Client is the simplest way to deploy a full Oracle Client application built with OCI, OCCI, JDBC-OCI, or ODBC drivers. It provides the necessary Oracle Client libraries in a small set of files. You can also download **Oracle Client** / **Oracle Instant Client** through -

Oracle Client

http://www.oracle.com/technetwork/database/enterprise-edition/downloads/index.html

Oracle Instant Client

http://www.oracle.com/technetwork/database/features/instant-client/index-097480.html

Download the appropriate Instant Client packages for your platform and the CPU. All installations REQUIRE the Basic or Basic Lite package. Unzip the packages and set the path points to it.

Oracle Client Installation Guide

http://download.oracle.com/docs/cd/B28359_01/install.111/b32302/toc.htm

Log Files

Navicat Report Viewer provides log files to keep track on the actions have been performed in Navicat Report Viewer and they are located in the **logs** directory, e.g. C:\Users\Guest\Documents\Navicat Report Viewer\logs\. You are allowed to change the log files location under Options.

HttpDump.log

Store information which response from your HTTP Server.

LogHistory.txt

Store all SQL statements of all the operations executed over databases and database objects in Navicat Report Viewer.

Note: This log will be overwritten while Navicat Report Viewer is being restarted.